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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF: Wolfgang Clemens et al.
SERIAL NO: 10/523,487 GROUP ART UNIT: Not assigned
FILED: February 4, 2005 EXAMINER: Not assigned
CUSTOMER NO.: 27162
FOR: Electronic Device

ATTY/DKT NO.: 415000-124

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

SIR:

Pursuant to 37 C.F.R. §1.56(a), Applicant(s) hereby cite(s) the enclosed documents listed on the attached copy of Form PTO-1449 which are believed to be material to the patentability of the above-identified application.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 indicated below:

- ☒ §1.97(b) This Information Disclosure Statement is filed:
- (1) Within three months of the filing date of a national application; OR
 - (2) Within three months of the date of entry of the national stage of an international application; OR
 - (3) Before the mailing of a first Office Action on the merits. No fee or statement is required.

☐ §1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action or under 37 CFR §1.113; OR
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___§1.97(d) This Information Disclosure Statement is filed after the mailing date of either:

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- (1) The statement as specified in 37 CFR §1.97(e) as set forth below; AND
- (2) Petition is hereby made under 37 CFR §1.97(d) for consideration of this Information Disclosure Statement; AND,
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___§1.97(e) The undersigned Attorney hereby states that:

___ each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Information Disclosure Statement;

or

___ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.

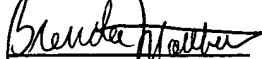
This Information Disclosure Statement provides a detailed list of the references cited in various pending applications listed in applicant's Disclosure Statement filed herewith.

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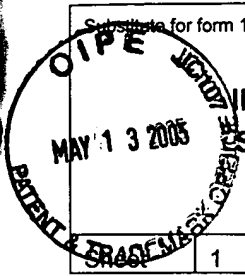

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Date

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Substitute for form 1449A/PTO



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

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|------------------------|------------------|
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| First Named Inventor | Wolfgang Clemens |
| Group Art Unit | Not assigned |
| Examiner Name | Not assigned |
| Attorney Docket Number | 411000-124 |

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|-------|---|----|---|
| Sheet | 1 | Of | 7 |
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U.S. PATENT DOCUMENTS

| Examiner Initial* | Cite No. ¹ | Document Number Number-Kid Code ² (if known) | Publication- Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------------|--|---------------------------------|--|---|
| | | US-2002/0022284 | 02-21-2002 | Heeger | |
| | | US-2002/0053320 | 05-09-2002 | Duthaler | |
| | | US-2002/025391 | 02-28-2002 | Angelopoulos | |
| | | US-2003/0175427 | 09-00-2003 | Loo et al. | |
| | | US-2004/0013982 | 01-00-2004 | Jacobson et al. | |
| | | US-2004/0026689 | 02-00-2004 | Bemds et al. | |
| | | US-2004/0084670 | 05-06-2004 | Tripsas et al. | |
| | | US-2004/0211329 | 10-00-2004 | Funahata et al. | |
| | | US-3,769,096 | 10-30-1973 | Ashkin | |
| | | US-4,340,657 | 07-20-1982 | Rowe | |
| | | US-4,937,119 | 06-26-1990 | Nickles et al. | |
| | | US-5,206,525 | 04-27-1993 | Yamamoto et al. | |
| | | US-5,321,240 | 06-14-1994 | Takihira | |
| | | US-5,347,144 | 09-13-1994 | Garnier et al. | |
| | | US-5,364,735 | 11-15-1994 | Akamatsu et al. | |
| | | US-5,480,839 | 01-02-1996 | Ezawa et al. | |
| | | US-5,486,851 | 01-23-1996 | Gehner et al. | |
| | | US-5,546,889 | 08-20-1999 | Wakita et al. | |
| | | US-5,574,291 | 11-12-1996 | Dodabalapur et al. | |
| | | US-5,578,513 | 11-00-1996 | Maegawa | |
| | | US-5,625,199 | 04-29-1997 | Baumbach et al. | |
| | | US-5,652,645 | 07-29-1997 | Jain | |
| | | US-5,691,089 | 11-25-1997 | Smayling | |
| | | US-5,705,826 | 01-06-1998 | Aratani et al. | |
| | | US-5,854,139 | 12-29-1998 | Kondo et al. | |
| | | US-5,883,397 | 03-16-1999 | Isoda et al. | |
| | | US-5,967,048 | 10-19-1999 | Fromson et al. | |
| | | US-5,970,318 | 10-19-1999 | Choi et al. | |
| | | US-5,973,598 | 10-26-1999 | Beigel | |
| | | US-5,998,805 | 12-07-1999 | Shi et al. | |
| | | US-6,045,977 | 04-04-2000 | Chandross et al. | |

| | | | | | |
|--|--|--------------|------------|------------------------|--|
| | | US-6,072,716 | 06-06-2000 | Jacobsen et al. | |
| | | US-6,083,104 | 07-04-2000 | Choi Kei Fung | |
| | | US-6,087,196 | 07-11-2000 | Sutrm et al. | |
| | | US-6,133,835 | 10-17-2000 | DeLeeuw et al. | |
| | | US-6,150,668 | 11-21-2000 | Bao et al. | |
| | | US-6,197,663 | 03-06-2001 | Chandross et al. | |
| | | US-6,207,472 | 03-27-2001 | Calligari et al. | |
| | | US-6,215,130 | 04-00-2001 | Dodabalapur | |
| | | US-6,221,553 | 04-24-2001 | Wolk et al. | |
| | | US-6,251,513 | 06-26-2001 | Hyatt | |
| | | US-6,284,562 | 09-00-2001 | Batlogg et al. | |
| | | US-6,321,571 | 11-27-2001 | Themont et al. | |
| | | US-6,322,736 | 11-00-2001 | Bao | |
| | | US-6,329,226 | 12-11-2001 | Jones et al. | |
| | | US-6,330,464 | 12-11-2001 | Colvin et al. | |
| | | US-6,335,539 | 10-19-1999 | Dimitrakopoulos et al. | |
| | | US-6,340,822 | 01-22-2002 | Brown et al. | |
| | | US-6,362,509 | 03-26-2002 | Hart | |
| | | US-6,384,804 | 05-07-2002 | Dodabalapur et al. | |
| | | US-6,403,396 | 06-11-2002 | Gudesen et al. | |
| | | US-6,429,450 | 08-06-2002 | DeLeeuw et al. | |
| | | US-6,498,114 | 12-24-2002 | Amundson et al. | |
| | | US-6,517,955 | 02-00-2005 | Jacobsen et al. | |
| | | US-6,555,840 | 04-29-2003 | Hudson et al. | |
| | | US-6,593,690 | 07-15-2003 | McCormick et al. | |
| | | US-6,603,139 | 08-05-2003 | Tessler et al. | |
| | | US-6,621,098 | 09-16-2003 | Jackson et al. | |
| | | US-6852,583 | 02-08-2005 | Bernds et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|--|---------------------------------|---|--|----------------|
| Examiner Initial* | Cite No. ¹ | Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known) | Publication- Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | DE10006257 (title page only) | 06-27-2002 | Siemens | | |
| | | DE10012204 (title page only) | 09-20-2001 | Siemens | | |
| | | DE10033112 (title page only) | 01-24-2002 | Siemens | | |
| | | DE10043204 (title page only) | 04-04-2002 | Siemens | | |
| | | DE10061297 (title page only) | 06-27-2002 | Siemens | | |
| | | DE10219905 | 12-04-2003 | Osram Opto Semicond. | | |
| | | DE19816860 | 11-18-1999 | Deutsche Telekom | | |
| | | DE19851703 | 05-04-2000 | Institute fur Halbleiterphysik | | |
| | | DE19852312 (title page only) | 05-20-1999 | Nintendo Co. | | |
| | | DE19921024 (title page only) | 11-16-2000 | Eichelmann | | |
| | | DE19933757 | 01-25-2001 | Giesecke & Devrient | | |

| | | | | | |
|--|------------------------------|------------|-----------------------------|--|---|
| | DE19935527 | 02-08-2001 | Giesecke & Devrient | | |
| | DE19937262 | 03-01-2001 | Siemens | | |
| | DE4243832 | 06-30-1994 | Daimler-Benz | | |
| | DE69519782 (title page only) | 01-03-2001 | News Datacom Ltd. | | |
| | EP0108650 | 05-16-1984 | Zytrex Corp. | | X |
| | EP0418504 | 03-27-1991 | Matsushita | | X |
| | EP0442123 | 08-21-1991 | Neste OY | | X |
| | EP0460242 | 12-11-1991 | Nippon Petrochemicals | | X |
| | EP0501456A2 | 09-02-1992 | Sony | | X |
| | EP0501456A3 | 09-02-1992 | Sony | | X |
| | EP0511807 | 11-04-1992 | GEC Avery Ltd. | | X |
| | EP0528662 | 02-24-1993 | Kabushiki Kaisha Toshiba | | X |
| | EP0685985 | 12-06-1995 | Hitachi Metals | | X |
| | EP0716458 | 06-12-1996 | AT&T Corp. | | X |
| | EP0786820 | 07-30-1997 | Motorola | | X |
| | EP0962984 | 12-08-1999 | Lucent Technologies | | X |
| | EP0966182 | 12-22-1999 | LG Electronics | | X |
| | EP0979715 | 02-16-2000 | Adolf Illig Maschinenbau | | |
| | EP0981165 | 02-23-2000 | Lucent Technologies | | X |
| | EP0989614 A2 | 03-29-2000 | Sel Semiconductor | | X |
| | EP1048912 | 11-02-2000 | Miele & Cie | | |
| | EP1065725 A2 | 01-03-2001 | Sel Semiconductor | | X |
| | EP1065725 A3 | 01-03-2001 | Sel Semiconductor | | X |
| | EP1103916 (title page only) | 05-30-2001 | Infison Technologies | | |
| | EP1224999 (title page only) | 07-24-2002 | Sumitomo Heavy Ind. | | X |
| | EP1237207 | 09-04-2002 | Fuji Photo Film Co. | | X |
| | FR2793089 | 11-03-2000 | Liger Rene | | |
| | GR2001P03239 (not available) | | | | |
| | GR2001P20024 (not available) | | | | |
| | JP 05152560 | 06-18-1993 | Sumitomo Chem | | X |
| | JP 05259434 | 10-05-1993 | Nisha Printing | | X |
| | JP 08197788 (abstract) | 08-06-1995 | Hitachi Koki | | X |
| | JP 362065477A | 03-24-1987 | Toshiba | | X |
| | JP 60117769 | 06-25-1985 | Fujitsu KK | | X |
| | JP 01169942 (abstract) | 07-05-1989 | Hitachi Ltd. | | X |
| | JP 61001060 | 01-07-1986 | Hitachi Koki | | X |
| | WO0036666 | 06-22-2000 | E Ink Corp. | | X |
| | WO0079617 | 12-28-2000 | Cambridge University | | X |
| | WO0108241 | 02-01-2001 | E Ink Corporation | | X |
| | WO0115233 | 03-01-2001 | Koninklijke Philips | | X |
| | WO0117041 | 03-08-2001 | E Ink Corp. | | X |
| | WO0127998 (title page only) | 04-19-2001 | Koninklijke Philips | | X |
| | WO0147044 A2 | 06-28-2001 | Plastic Logic Limited | | X |
| | WO0147044 A3 | 06-28-2001 | Plastic Logic Limited | | X |
| | WO0147045 | 06-28-2001 | Plastic Logic | | X |
| | WO0205361 | 01-17-2002 | 3M Innovative Prop. | | X |

| | | | | | | |
|--|--|------------------------------|------------|-------------------------|--|---|
| | | WO02065557 | 08-22-2002 | Siemens | | |
| | | WO02095805 A2 | 11-28-2002 | Plastic Logic Limited | | X |
| | | WO02095805 A3 | 11-28-2002 | Plastic Logic Limited | | X |
| | | WO0219443 | 03-07-2002 | Siemens | | |
| | | WO0219443 (abstract) | 03-07-2002 | Siemens | | X |
| | | WO0247183 | 06-13-2002 | Siemens | | |
| | | WO0247183 (abstract) | 06-13-2002 | Siemens | | X |
| | | WO04042837 | 05-21-2004 | Siemens | | X |
| | | WO9316491 | 08-19-1993 | Kopin Corp. | | X |
| | | WO9417556 | 08-04-1994 | FCI-Fiberchem | | X |
| | | WO95/31831 (title page only) | 11-23-1995 | Philips Electronics | | X |
| | | WO9602924 | 02-01-1996 | Oryx Techn Corp. | | X |
| | | WO9718944 | 05-29-1997 | Gov't of USA | | X |
| | | WO9818186 (title page only) | 04-30-1998 | Erico Lightning | | X |
| | | WO9840930 | 09-17-1998 | Precision Dynamics | | X |
| | | WO9907189 | 02-11-1999 | Cambridge | | X |
| | | WO9910929 (title page only) | 03-04-1999 | Koninklijke Philips | | X |
| | | WO9910939 | 03-04-1999 | Koninklijke Philips | | X |
| | | WO9921233 | 04-29-1999 | Regents of U California | | X |
| | | WO9930432 | 06-17-1999 | Koninklijke Philips | | X |
| | | WO9939373 | 08-05-1999 | Princeton University | | X |
| | | WO9940631 | 08-12-1999 | Opticom USA | | X |
| | | WO9954936 | 10-28-1999 | Cambridge Display | | X |

NON-PATENT LITERATURE DOCUMENTS

| | | | |
|--|--|---|---|
| | | ANGELOPOULOS M et al, "In-Situ Radiation Induced Doping", Mol. Cryst. Liq. Cryst. 1990, vol. 189, pp. 221-225. | X |
| | | ASSADI A, et al., "Field-Effect Mobility of Poly (3-Hexylthiophene) Dept. of Physics and Measurement Technology, Received 3 March 1988; accepted for Publication 17 May 1988 | X |
| | | BAO, Z. et al., "High-Performance Plastic Transistors Fabricated by Printing Techniques", Chem. Mater Vol. 9, No. 6, 1997, pp 1299-1301. | X |
| | | BAO, Z. et al., "Organic and Polymeric Materials for the Fabrications of Thin Film Field-Effect Transistors", paper presented at the meeting of American Chemical Society, Division of Polymer Chemistry, XX, XX, Bd. 39, Nr. 1, 29 Marz 1998 (1998-03-29), P001032497, ISSN: 0032-3934 das ganze Dokument | X |
| | | BRAUN D., et al, "Visible light emission from semiconducting polymer diodes", American Institute of Physics, Applied Physics Letters 58, May 6, 1991, pages 1982 – 1984. | X |
| | | BROWN, A.R. et al., "Field-effect transistors made from solution-processed organic semiconductors", Elsevier Science, S.A., Synthetic Metals 88 (1997) pp. 37-55 | X |
| | | BROWN, A.R., "Logic Gates Made from Polymer Transistors and Their Use in Ring Oscillators", Science, Vol. 270, November 10, 1995, pp 972 - 974 | X |
| | | CHEN, Shiao-Shien et al., "Deep Submicrometer Double-Gate Fully-Depleted SOI PMOS Devices: A Concise Short-Channel Effect Threshold Voltage Model Using a Quasi-2D Approach", IEEE Transaction on Electron Devices, Vol. 43, No. 9, September 1996 | X |
| | | CHEN, X.L. et al., "Morphological and Transistor Studies of Organic Molecular Semiconductors with Anisotropic Electrical Characteristics", American Chemical Society, 2001, Chem. Mater. 2001, 13, 1341—1348. | X |
| | | CLEMENS, W. et al., "Vom Organischen Transistor Zum Plastik-Chip," Physik Journal, V. 2, 2003, pp. 31-36. | |
| | | COLLET J. et al., 'LOW VOLTAGE, 30 NM CHANNEL LENGTH, ORGANIC TRANSISTORS WITH A SELF-ASSEMBLED MONOLAYER AS GATE INSULATING FILMS', APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, Bd 76, Nr. 14, 3. april 2000 (2000-04-03), Seiten 1941-1943, XP000950589, ISSN:0003-6951, das ganze Dokument | X |
| | | CRONE, B. ET AL, "Large-scale complementary Integrated circuits based on Organic transistors", Nature, Vol. 403, Feb. 3, 2000, PP. 521 - | X |
| | | DAI, L. et al, "Photochemical Generation of Conducting Patterns in Polybutadiene Films., Macromolecules, Vol. 29, No. 1, 1996, pages 282-287, XP 001042019, the whole document | X |
| | | DE LEEUW D.M. et al., "Polymeric integrated circuits and light-emitting diodes", Electron Devices Meeting, 1997. Technical Digest, International, Washington, DC, USA 7-10 Dec. 1997, New York, NY, USA, IEEE, US 7 December 1997. | X |
| | | DODABALAPUR, A. et al., Organic smart pixels", American Institute of Physics, Applied Physics Letters, Vol. 73, No. 2, July 13, 1998, pp. 142 – 144. | X |
| | | DRURY et al., "Low-Cost All-Polymer Integrated Circuits", American Institute of Physics, Applied Physics Letters, 1998, Vol. 73, No. 1, pp 108-110, July 6, 1998. | X |
| | | FICKER, J. et al., "Dynamic and Lifetime Measurements of Polymer OFETS and Integrated Plastic Circuits, " Proc. of SPIE, v. 466, 2001, pp. 95-102 | X |
| | | FIX, W. et al., "Fast Polymer Integrated Circuits Based on a Polyfluorene Derivative", ESSDERC 2002, 2002, pp. 527-529. | X |
| | | FIX, W., et al., "Fast polymer integrated circuits", American Institute of Physics, Applied Physics Letters, Vol. 81, No. 89, August 2002, pp. 1735-1737. | X |
| | | FORREST et al.: "The Dawn of Organic Electronics", IEEE Spectrum, August 2000 (2000-08), Seiten 29-34, XP002189000, IEEE Inc., New York, US ISSN:0018-9235, Seite 33, rechte Spalte, Zeile 58-Seite 34, linke Spalte, Zeile 24; Abbildung 5. | X |
| | | Fraunhofer Magazin- Polytronic Chips Von der Rolle, 4.2001, Pages 8-13 | |
| | | GARNIER F et al., "Vertical Devices Architecture By Molding Of Organic-Based Thin Film Transistor", Applied Physics Letters, American Institute Of Physics. XP000784120, issn: 0003-6951 abbildung 2 | X |
| | | GARNIER et al., "Conjugated Polymers and Oligomers as Active Material For Electronic Devices", Synthetic Metals, Vol. 28, 1989 | X |

| | | | |
|--|--|---|---|
| | | GARNIER, F. et al., "All-Polymer Field-Effect Transistor Realized by Printing Techniques", Science, American Association for the Advancement of Science, US, vol 265, 16 September 1994, pp 1684-1686. | X |
| | | GELINCK, G.H. et al., "High-Performance All-Polymer Integrated Circuits", Applied Physics Letters, v. 77, 2000, pp. 1487-1489. | X |
| | | HALLS, J.J. M., et al., "Efficient photodiodes from interpenetrating polymer networks", Nature, Vol. 376, August 10, 1995, pp. 498 – 500. | X |
| | | HEBNER, T.R. et al., "Ink-jet printing of doped polymers for organic light emitting devices:", American Institute of Physics, Applied Physics Letters, Vol. 72, no. 5, February 2, 1998, pages 519-521. | X |
| | | HERGEL, H. J.: "Pld-Programmiertechnologien", Elektronik, Franzis Verlag GMBH. Munchen, DE, Bd 41, Nr. 5, 3. Marz 1992 (1992-03-03), Seiten 44-46, XP000293121, ISSN: 0013-5658, Abbildungen 1-3. | |
| | | HWANG J D et al., "A Vertical Submicron Sic thin film transistor", Solid State Electronics, Elsevier Science Publishers, Barking, GB, Bd. 38, NR. 2,1. February 1995 (1995-02-01), Seiten 275-278, XP004014040, ISSN:0038-1101, Abbildung 2 | X |
| | | IBM Technical Disclosure Bulletin, "Short-Channel Field-Effect Transistor", IBM Corp., New York, US, Bd. 32, Nr. 3A, 1.August 1989 (1989-08-01), Seiten 77-78, XP000049357, ISSN:0018-8689, das ganze Dokument | X |
| | | KLAUK, H. et al., "Fast Organic Thin Film Transistor Circuits", IEEE Electron Device Letters, Vol. 20, no. 6, pages 289-291 | X |
| | | KLAUK, H. et al., "Pentacene Thin Film Transistors and Inverter Circuits", 1997 International Electron Devices Meeting Technical Digest, pages 539-542, December 1997 | X |
| | | KNOBLOCH, A. et al., "Printed Polymer Transistors", Proc. Polytronic, v. 84, 2001, pp. 84-89 | X |
| | | KOBEL W. et al., "Generation of Micropatterns in Poly (3-Methyl-Thiophene) Films Using Microlithography: A First Step in the Design of an All-Organic Thin-Film Transistor" Synthetic Metals, V. 22, 1988, pp. 265-271. | X |
| | | KUHLMANN et al., "Terabytes in Plastikfolie", Organische Massenspeicher vor der Serienproduktion | |
| | | KUMAR, Anish et al., "Kink-Free Polycrystalline Silicon Double-Gate Elevated-Channel Thin-Film Transistors", IEEE Transactions on Electron Devices, Vol. 45, No. 12, December 1998 | X |
| | | LIDZEY, D. G. et al., "Photoprocessed and Micropatterned Conjugated Polymer LEDs", Synthetic Metals, V. 82, 1996, pp. 141-148 | X |
| | | LOWE, J. et al., "Poly (3—(2—Acetoxyethyl)Thiophene): A Model Polymer for Acid-Catalyzed Lithography", Synthetic Metals, Elsevier Sequoia, Lausanne, CH, Bd. 85, 1997, Seiten 1427-1430. | X |
| | | LUCENT TECHNOLOGIES, "Innovation marks significant milestone in the development of electronic paper", Cambridge, MA and Murray Hill, NJ, November 20, 2000. XP-002209726. | X |
| | | MANUELLI, Alessandro et al., "Applicability of Coating Techniques for the Production of Organic Field Effect Transistors", IEEE Polytronic 2002 Conference, 2002, pp. 201-204. | X |
| | | MIYAMOTO, Shoichi et al., "Effect of LDD Structure and Channel Poly-Si Thinning on a Gate-All-Around TFT (GAT) for SRAM's, IEEE Transactions on Electron Devices. Vol. 46, No. 8, August 1999 | X |
| | | OELKRUG, D. et al., "Electronic spectra of self-organized oligothiophene films with 'standing' and 'lying' molecular units", Elsevier Science S.A., 1996, Thin Solid Films 284-270 | X |
| | | REDECKER, M. et al., "Mobility enhancement through homogeneous nematic alignment of a liquid-crystalline polyfluorene", 1999 American Institute of Physics, Applied Physics Letters, Vol. 74, number 10, pp. 1400-1402. | X |
| | | ROGERS J A et al., "Low-Voltage 0.1 Mum Organic Transistors and Complementary Inverter Circuits Fabricated with a Low-Cost Form of Near-Field Photolithography", Applied Physics Letters, American Institute of Physics. New York, US, Bd. 75, Nr. 7, 16. August 1999 (1999-08-16), Seiten 1010-1012, XP000934355, ISSN: 003-6951, das ganze Dokument | X |
| | | ROGERS, J. A. et al., "Printing Process Suitable for Reel-to-Reel Production of High-Performance Organic Transistors and Circuits", Advanced Materials, VCH, Verlagsgesellschaft, Weinheim, DE, Bd. 11, Nr. 9, 5. Juli 1999 (1999-07-05), Seiten 741-745, P000851834, ISSN: 0935-9648, das ganze Dokument | X |
| | | ROMAN et al., "POLYMER DIODES WITH HIGH RECTIFICATION:", Applied Physics Letters, Vol. 75, No. 21, November 22, 1999 | X |
| | | ROST, Henning et al., "All-Polymer Organic Field Effect Transistors", Proc. Mat. Week, CD, 2001, pp. 1-6 | X |
| | | SANDBERG, H. et al, "Ultra-thin Organic Films for Field Effect Transistors", SPIE Vol. 4466, 2001, pp. 35 – 43. | X |

| | | | |
|--|--|--|---|
| | | SCHOEBEL, "Frequency Conversion with Organic-On-Inorganic Heterostructured Diodes", Extended Abstracts of the International Conference on Solid State Devices and Materials, September 1, 1997 | X |
| | | SCHRODNER M. ET AL., "Plastic electronics based on Semiconducting Polymers", First International IEEE Conference on Polymers and Adhesives in Microelectronics and Photonics. Incorporating Poly, Pep & Adhesives in Electronics. Proceedings (Cat. No. 01TH8592), First International IEEE Conference on Polymers and Adhesives in Micr, Seitenn 91 – 94. | X |
| | | ULLMAN, A. et al., "High Performance Organic Field-Effect Transistors and Integrated Inverters", Mat. Res. Soc. Symp. Proc., v. 665, 2001, pp. 265-270. | X |
| | | YU, G. et al., "Dual-function semiconducting polymer devices: Light-emitting and photodetecting diodes", American Institute of Physics, Applied Physics Letter 64, March 21, 1994, pages 1540 –1542. | X |
| | | ZANGARA L: "Metall Statt Halbleiter, Programmierung Von Embedded ROMS Ueber Die Metallisierungen", Elektronik, Franzis Verlag GMBH, Munchen, DE, Bd. 47, Nr. 16, 4 August 1998 (1998-08-04), Seiten 52-55, XP000847917, ISSN: 0013-5658, Seite 52, rechtes Plate, Zeile 7-Seite 53, linke Spalte, Zeile 14; Abbildungen 1, 2 | |
| | | ZHENG, Xiang-Yang et al., "Electrochemical Patterning of the Surface of Insulators with Electrically Conductive Polymers", J. Electrochem. Soc., v. 142, 1995, pp L226-L227. | X |
| | | ZIE VOOR TITEL BOEK, de 2e PAGINA, XP-002189001, PG 196-228. | X |

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|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF: Wolfgang Clemens et al.
SERIAL NO: 10/523,487 GROUP ART UNIT: Not assigned
FILED: February 4, 2005 EXAMINER: Not assigned
CUSTOMER NO.: 27162
FOR: Electronic Device
ATTY/DKT NO.: 411000-124

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DISCLOSURE STATEMENT UNDER 37 CFR 1.56

SIR:

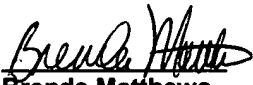
This paper is to bring to the attention of the PTO the following U.S. pending applications, all of which are related in different respects to organic electronic devices and/or method of making such devices such as transistors, diodes, integrated circuits and the like. Many of these applications also may have one or more common inventors.

| <u>Application No.</u> | <u>Title</u> | <u>Inventors</u> | <u>Atty. Dkt. No.</u> |
|------------------------|--|---------------------|-----------------------|
| | | | |
| 10/332,140 | Method for the Production and Configuration of Organic Field-Effect Transistors (OFET) | Adolf Bernds et al. | 411000-103 |
| 10/344,951 | Organic Field-Effect Transistor (OFET), A Production Method Therefor, An Integrated Circuit Constructed From the Same and Their Uses | Adolf Bernds et al. | 411000-99 |

| <u>Application No.</u> | <u>Title</u> | <u>Inventors</u> | <u>Atty. Dkt. No.</u> |
|------------------------|---|-------------------------|-----------------------|
| 10/362,932 | Organic Field Effect Transistor, Method for Structuring an OFET and Integrated Circuit | Adolf Bernds et al | 411000-110 |
| 10/380,113 | Organic Rectifier, Circuit, RFID Tag and Use of an Organic Rectifier | Adolf Bernds et al. | 411000-106 |
| 10/380,206 | Organic Memory, Identification Marker (RFID-TAG) with Organic Memory and Uses of an Organic Memory | Adolf Bernds et al. | 411000-102 |
| 10/381,032 | Electrode and/or Conductor Track for Organic Components and Production Method Thereof | Adolf Bernds et al. | 411000-105 |
| 10/433,959 | Organic Field Effect Transistor, Method For Structuring an OFET and Integrated Circuit | Adolf Bernds | 411000-108 |
| 10/451,108 | Organic Semiconductor, Production Method Therefor And The Use Thereof | Mark Giles et al. | 411000.109 |
| 10/433,961 | Device For Detecting and/or Transmitting at Least One Environmental Influence, Method for Producing Said Device and Use Thereof | Wolfgang Clemens et al. | 411000-111 |
| 10/467,636 | Organic Field Effect Transistor With a Photostructured Gate Dielectric, Method for the Production and Use Thereof in Organic Electronics | Adolf Bernds et al. | 411000-104 |
| 10/473,050 | Device With At Least Two Organic Electronic Components and Method for Producing the Same | Adolf Bernds et al. | 411000-113 |
| 10/479,234 | Organic Field Effect Transistor, Method for Production and Use Thereof in the Assembly of Integrated Circuits | Adolf Bernds et al. | 411000-101 |
| 10/479,238 | Method For Producing Conductive Structures by Means of Printing Technique, and Active Components Produced Therefrom For Integrated Circuits | Adolf Bernds et al. | 411000-100 |
| 10/492,922 | Insulator for An Organic Electronic Component | Erwann Guillet et al. | 411000-115 |
| 10/492,923 | Electronic Unit, Circuit Design for the Same and Production Method | Wolfgang Clemens et al. | 411000-114 |
| 10/498,610 | Organic Field Effect Transistor with Offset Threshold Voltage and the Use Thereof | Walter Fix et al. | 411000-119 |

| <u>Application No.</u> | <u>Title</u> | <u>Inventors</u> | <u>Atty. Dkt. No.</u> |
|------------------------|---|-------------------------|-----------------------|
| 10/508,640 | Logic Component Comprising Organic Field Effect Transistors | Walter Fix et al. | 411000-120 |
| 10/508,737 | Device and Method for Laser Structuring Functional Polymers and the Uses Thereof | Adolf Bernds et al. | 411000-121 |
| 10/517,750 | Substrate for an Organic Field Effect Transistor, Use of the Substrate, Method of Increasing the Charge Carrier Mobility and Organic Field Effect Transistor (OFET) | Wolfgang Clemens et a. | 411000-122 |
| 10/523,216 | Electronic Component Comprising Predominantly Organic Functional Materials and a Process for the Production Thereof | Adolf Bernds et al. | 411000-123 |
| 10/523,487 | Electronic Device | Wolfgang Clemens et al. | 411000-124 |
| 10/524,646 | Organic Component For Overvoltage Protection And Associated Circuit | Walter Fix et al. | 411000-127 |
| Unknown | Organic Electronic Component With High-Resolution Structuring And Process For The Production Thereof | Wolfgang Clemens et al. | 411000-128 |

The Commissioner is authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 03-0678.

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Respectfully submitted,
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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/523,487 |
| | | | | Filing Date | February 4, 2005 |
| | | | | First Named Inventor | Wolfgang Clemens |
| | | | | Group Art Unit | Not assigned |
| | | | | Examiner Name | Not assigned |
| Sheet | 1 | Of | 1 | Attorney Docket Number | 411000-124 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|--|---------------------------------|--|---|
| Examiner Initial* | Cite No. ¹ | Document Number Number-Kid Code ² (if known) | Publication- Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | US-6,852,583 | 10/09/2003 | Adolf Bernds et al. | See Disclosure Statement filed herewith |
| | 2 | US-10/344,951 | N/A | Adolf Bernds et al. | |
| | 3 | US-10/362,932 | 10/02/2003 | Adolf Bernds et al. | |
| | 4 | US-10/380,113 | 09/25/2003 | Adolf Bernds et al. | |
| | 5 | US-10/380,206 | N/A | Adolf Bernds et al. | |
| | 6 | US-10/381,032 | N/A | Adolf Bernds et al. | |
| | 7 | US-10/433,959 | N/A | Adolf Bernds | |
| | 8 | US-10/433,961 | N/A | Wolfgang Clemens et al. | |
| | 9 | US-10/451,108 | N/A | Mark Giles et al. | |
| | 10 | US-10/467,636 | N/A | Adolf Bernds et al. | |
| | 11 | US-10/473,050 | N/A | Adolf Bernds et al. | |
| | 12 | US-10/479,234 | 12/30/2004 | Adolf Bernds et al. | |
| | 13 | US-10/479,238 | N/A | Adolf Bernds et al. | |
| | 14 | US-10/492,922 | N/A | Erwann Buillet et al. | |
| | 15 | US-10/492,923 | 12/23/2004 | Wolfgang Clemens et al. | |
| | 16 | US-10/498,610 | N/A | Walter Fix et al. | |
| | 17 | US-10/508,640 | N/A | Walter Fix et al. | |
| | 18 | US-10/508,737 | N/A | Adolf Bernds et al. | |
| | 19 | US-10/517,750 | N/A | Wolfgang Clemens et al. | |
| | 20 | US-10/523,216 | N/A | Adolf Bernds et al. | |
| | 21 | US-10/523,487 | N/A | Wolfgang Clemens et al. | |
| | 22 | US-10/524,646 | N/A | Walter Fix et al. | |
| | 23 | Unknown | N/A | Wolfgang Clemens et al. | |
| Examiner Signature | | | Date Considered | | |

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